



**Shell Chemicals**

# Cargo Handling Sheet

NEODENE 12

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Revision 8

*Cargo Handling Sheets are for the use of vessels chartered on behalf of Shell Chemicals*

## Product Details

Product Name:	NEODENE 12 Alpha Olefin
IMO Product Name:	1-Dodecene
Chemical Family:	Olefins
Product Code:	V1142

SDS: <http://www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets.html>

## Physical Properties

Density:	758 kg/m <sup>3</sup> (20 °C / 68 °F)
Dynamic Viscosity:	1.38 mPa.s (20 °C / 68 °F)
Vapor Pressure:	21 Pa (20 °C / 68 °F)
Boiling Point:	210 - 213 °C / 410 - 415 °F
Melting Point:	-36 °C / -33 °F
Flash Point:	77 °C / 171 °F
Appearance:	Liquid at room temperature, Clear, colourless, mild hydrocarbon odour

**Note 1:** Physical Properties are for reference only and valid as of date of this revision; see loading terminal for specific properties.

**Note 2:** Hazard Identification: Not Flammable, static accumulator; See SDS for full list of hazards and precautions.

## Transhipment

Prior to arranging transhipment Charterer must agree to Owner's proposed plan. When arranged by the Owner, Owner must ensure that all transhipment vessels comply with the requirements of this cargo handling sheet.

## Marpol Details

Marpol Annex:	II
IMO Ship Type:	Change from 2 to 3 (IBC 2021)
Inland Barges:	Double Hull
IMO Pollution Category:	Y (see note below)
IBC 16.2.6:	No

IBC 16.2.9: No

Pre-Wash Required: No

**Note 1:** In accordance with MEPC.2/Circ.21 and USCG review, the pollution category on this cargo was changed from Cat X to Cat Y.

### Cargo Handling Requirements

N2 Purge Cargo Tanks Prior Loading: No

N2 Blanket Required: See below notes and Regional Requirements; PQ Requirement

Adjacent Space Purge: No

Loading Temperature Range: Ambient – 40 °C / 104 °F

Transit Temperature Range: Ambient – 40 °C / 104 °F

Discharge Temperature Range: Ambient – 40 °C / 104 °F

Maximum Heating Coil Temperature: Blanked off

Adjacent Maximum Cargo Temperature: 40 °C / 104 °F

**Note 1:** If Nitrogen blanket is in place and Carrier chooses to tranship, carrier must reapply nitrogen blanket on the cargo, both on the discharging and receiving ship, at their time, risk, and expense.

**Note 2:** PQ = Product Quality

**Note 3:** N2 Blanket Guidance:

a. O2 level in tanks: See Regional Requirements

b. Vessel to maintain a constant nitrogen overpressure of 20 millibars or more during the voyage

c. **DAILY LOG:** During the voyage the vessel shall maintain a daily log of the following and the log shall be sent to the Shell Charterers/Planners at the time of discharge.

1. Tank pressure 2. O2 level 3. Tank Temperature

### Regional Requirements

**Note 1:** If antioxidant is used:

- Inter-Europe Voyages: no nitrogen blanket required
- Intercontinental shipments: nitrogen blanket required, maximum 5% O2

If no antioxidant is used:

- Inter-Europe Voyages & Intercontinental Shipments: N2 (99.99%) blanket required, maintain at <1000 ppm oxygen

### Tank Acceptance Requirements

All shore and ship cargo lines and tanks are to be presented clean (residual free), dry, odor free, and rust free, with good gaskets.

Maintenance of heating coils is to be verified in the ship's log. If product is to be heated, heating coils are to be confirmed leak free. If product is not heated, heating coils are to be blown clear and dried with N2 and blanked off.

**Stainless Steel or Coated Tank:** Either, carrier to verify suitability of coating for product  
**Prior Cargo Restrictions:** No  
**Wall Wash Required:** No

## Safety Information and Incident Reporting

### Safety Information:

HSSE information can be found in the SDS or e-SDS.

### Incident Reporting:

All incidents should be reported in accordance with regulations and charter party requirements.

**International Registered Vessels:** If an incident occurs call Shell International Trading and Shipping in London on +442079347777.

**Jones Act Vessels:** call the Shell 24 hr. incident number at +17132412532. The USA National Response Center telephone number is +18004248802.

For additional marine cargo handling advice or information, contact the responsible regional Shell Chemicals Marine Technical Advisor.



### Shell Chemical LP

PO Box 4407

Houston

Texas 77210

USA

Tel +1 866 897 4355

**Internet <http://www.shell.com/chemicals>**

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